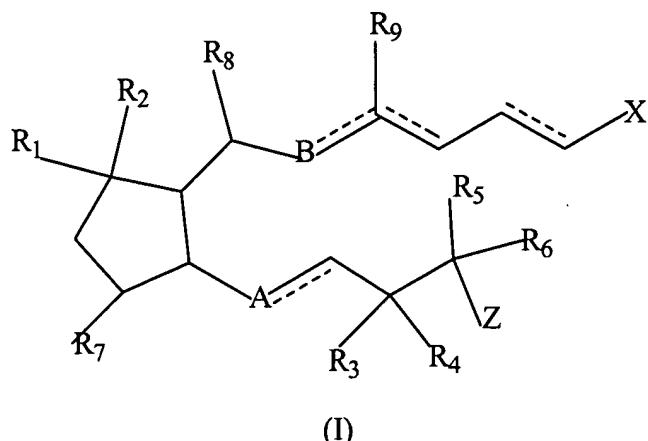


III. Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Canceled)
2. (Currently Amended) A compound of formula (I) or a pharmaceutically acceptable salt thereof, wherein the compound of formula (I) is:



wherein the dotted lines indicate a single or a double bond;

R₁ is -OD₁ or -Cl;

R₂ and R₈ are a hydrogen; or R₁ and R₂ taken together are =CH₂ or =O;

R₃ and R₄ are each independently a hydrogen, -OD₁ or -CH₃;

R₅ and R₆ are each independently a hydrogen, -OD₁, -CH₃, -OCH₃ or -CH=CH₂;

R₇ is a hydrogen or -OD₁;

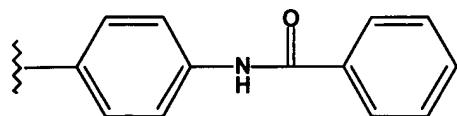
R₉ is hydrogen or absent when the carbon to which it is attached is the central carbon of an allene functionality; or R₈ and R₉ taken together with the chain to which they are attached form a substituted benzene ring ~~with the proviso that R₄ is an oxygen atom which is attached to the carbon atom at the position of the benzene ring defined by B;~~

A is -CH=, -CH₂, -S-, or -O-;

B is -CH=, -CH₂, -S-, or -C(O)-;

X is -CH₂OR₁₁, -C(O)OR₁₁ or -C(O)N(D₁)R₁₂;

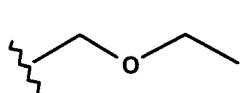
R₁₁ is D₁, a lower alkyl group, or



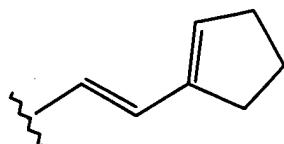
R₁₂ is -S(O)₂CH₃ or -C(O)CH₃;

Z is (a) an ethyl, (b) a butyl, (c) a hexyl, (d) a benzyl,

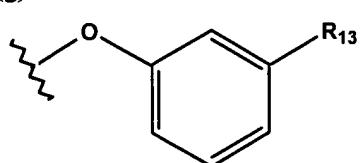
(e)



(f)

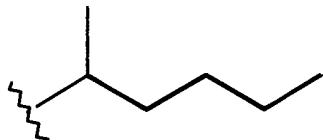


(g)



(h)

or



R₁₃ is a hydrogen or -Cl;

D₁ is a hydrogen or D; with the proviso that at least one D₁ in formula (I) must be D;

D is Q or K;

Q is -NO or -NO₂;

K is -W_a-E_b-(C(R_e)(R_f))_p-E_c-(C(R_e)(R_f))_x-W_d-(C(R_e)(R_f))_y-W_i-E_j-W_g-(C(R_e)(R_f))_z-T-Q;

~~with the proviso that when X is -C(O)OD₁ and D₁ is K, then K is not an alkyl, branched alkyl or cycloalkyl mononitrate; a benzoic acid substituted benzyl oxy mononitrate; the regioisomeric esters of glycerol dinitrate and oligomers thereof;~~

a, b, c, d, g, i and j are each independently an integer from 0 to 3;

p, x, y and z are each independently an integer from 0 to 10;

W at each occurrence is independently -C(O)-, -C(S)-, -T-, -(C(R_e)(R_f))_h-, an alkyl group, an aryl group, a heterocyclic ring, an arylheterocyclic ring, or -(CH₂CH₂O)_q-;

E at each occurrence is independently -T-, an alkyl group, an aryl group, -(C(R_e)(R_f))_h-, a heterocyclic ring, an arylheterocyclic ring, or -(CH₂CH₂O)_q-;

h is an integer from 1 to 10;

q is an integer from 1 to 5;

R_e and R_f are each independently a hydrogen, an alkyl, a cycloalkoxy, a halogen, a hydroxy, an hydroxyalkyl, an alkoxyalkyl, an arylheterocyclic ring, an alkylaryl, a cycloalkylalkyl, a heterocyclicalkyl, an alkoxy, a haloalkoxy, an amino, an alkylamino, a dialkylamino, an arylamino, a diarylamino, an alkylarylamino, an alkoxyhaloalkyl, a haloalkoxy, a sulfonic acid, a sulfonic ester, an alkylsulfonic acid, an arylsulfonic acid, an arylalkoxy, an alkylthio, an arylthio, a cycloalkylthio, a cycloalkenyl, a cyano, an aminoalkyl, an aminoaryl, an aryl, an arylalkyl, an alkylaryl, a carboxamido, a alkylcarboxamido, an arylcarboxamido, an amidyl, a carboxyl, a carbamoyl, a carbamate, an alkylcarboxylic acid, an arylcarboxylic acid, an alkylcarbonyl, an arylcarbonyl, an ester, a carboxylic ester, an alkylcarboxylic ester, an arylcarboxylic ester, a haloalkoxy, a sulfonamido, an alkylsulfonamido, an arylsulfonamido, a sulfonic ester, a urea, a phosphoryl, a nitro, -T-Q, or R_e and R_f are -(C(R_e)(R_f))_k-T-Q, wherein R_e and R_f are as defined herein, or R_e and R_f taken together with the carbons to which they are attached form a carbonyl, a methanthial, a heterocyclic ring, a cycloalkyl group or a bridged cycloalkyl group;

k is an integer from 1 to 3;

T at each occurrence is independently a covalent bond, a carbonyl, an oxygen, -S(O)_o- or -N(R_a)R_i-;

o is an integer from 0 to 2;

R_a is a lone pair of electrons, a hydrogen or an alkyl group;

R_i is a hydrogen, an alkyl, an aryl, an alkylcarboxylic acid, an arylcarboxylic acid, an alkylcarboxylic ester, an arylcarboxylic ester, an alkylcarboxamido, an arylcarboxamido, an alkylaryl, an alkylsulfinyl, an alkylsulfonyl, an arylsulfinyl, an arylsulfonyl, a sulfonamido, a carboxamido, a carboxylic ester, an amino alkyl, an amino aryl, -CH₂-C(T-Q)(R_e)(R_f), or -(N₂O₂)⁻•M⁺, wherein M⁺ is an organic or inorganic cation; with the proviso that when R_i is -CH₂-C(T-Q)(R_e)(R_f) or -(N₂O₂)⁻•M⁺, or R_e or R_f are T-Q or R_e and R_f are -(C(R_e)(R_f))_k-T-Q, wherein R_e and R_f are as defined herein, then the "-T-Q" subgroup can be a hydrogen, an alkyl, an alkoxy, an alkoxyalkyl, an aminoalkyl, a hydroxy, a heterocyclic ring or an aryl group;

with the proviso that the compound of formula (I) has at least one NO group or at least three NO₂ groups linked through an oxygen atom, a nitrogen atom or a sulfur atom.

3. (Currently amended) The compound of claim 2, wherein the compound of formula (I) is a nitrosated arbaprostil, a nitrosylated arbaprostil, a nitrosated and nitrosylated arbaprostil, a nitrosated alprostadil, a nitrosylated alprostadil, a nitrosated and nitrosylated alprostadil, a nitrosated carboprost, a nitrosylated carboprost, a nitrosated and nitrosylated carboprost, a nitrosated cloprostenol, a nitrosylated cloprostenol, a nitrosated and nitrosylated cloprostenol, a nitrosated dimoxaprost, a nitrosylated dimoxaprost, a nitrosated and nitrosylated dimoxaprost, a nitrosated enprostil, a nitrosylated enprostil, a nitrosated and nitrosylated enprostil, a nitrosated enisoprost, a nitrosylated enisoprost, a nitrosated and nitrosylated enisoprost, a nitrosated fenprostalene, a nitrosylated fenprostalene, a nitrosated and nitrosylated fenprostalene, a nitrosated gemeprost, a nitrosylated gemeprost, a nitrosated and nitrosylated gemeprost, a nitrosated latanoprost, a nitrosylated latanoprost, a nitrosated and nitrosylated latanoprost, a nitrosated meteneprost, a nitrosylated meteneprost, a nitrosated and nitrosylated meteneprost, a nitrosated mexiprostil, a nitrosylated mexiprostil, a nitrosated and nitrosylated mexiprostil, a nitrosated misoprostol, a nitrosylated misoprostol, a nitrosated and nitrosylated misoprostol, a nitrosated misoprostol acid, a nitrosylated misoprostol acid, a nitrosated and nitrosylated misoprostol acid, a nitrosated nocloprost, a nitrosylated nocloprost, a nitrosated and nitrosylated nocloprost, a nitrosated ornoprostil, a nitrosylated ornoprostil, a nitrosated and nitrosylated ornoprostil, a nitrosated prostalene, a nitrosylated prostalene, a nitrosated and nitrosylated prostalene, a nitrosated PGE₁, a nitrosylated PGE₁, a nitrosated and nitrosylated PGE₁, a nitrosated PGE₂, a nitrosylated PGE₂, a nitrosated and nitrosylated PGE₂, a nitrosated PGF₁, a nitrosylated PGF₁, a nitrosated and nitrosylated PGF₁, a nitrosated PGF_{2α}, a nitrosylated PGF_{2α}, a nitrosated and nitrosylated PGF_{2α}, a nitrosated rioprostil, a nitrosylated rioprostil, a nitrosated and nitrosylated rioprostil, a nitrosated rosaprostol, a nitrosylated rosaprostol, a nitrosated and nitrosylated rosaprostol, a nitrosated remiprostol, a nitrosylated remiprostol, a nitrosated and nitrosylated remiprostol, a nitrosated sulprostone, a nitrosylated sulprostone, a nitrosated and nitrosylated sulprostone, a nitrosated trimoprostil, a nitrosylated trimoprostil, a nitrosated and nitrosylated trimoprostil, a nitrosated tiprostanide, a nitrosylated tiprostanide, a nitrosated and nitrosylated tiprostanide, a nitrosated unoprostone, or a nitrosylated unoprostone, a nitrosated and nitrosylated unoprostone, or a mixture thereof.

4. (Previously Presented) A composition comprising the compound of claim 2 and a pharmaceutically acceptable carrier.

5 -116. (Canceled)

117. (Currently Amended) A nitrosylated arbaprostil, Arbaprostil, a nitrosylated alprostadil, a nitrosylated carboprost, a nitrosylated cloprostenol, a nitrosylated dimoxaprostan, a nitrosylated enprostil, a nitrosylated enisoprost, a nitrosylated fenprostalene, a nitrosylated gemeprost, a nitrosylated latanoprost, a nitrosylated meteneprost, a nitrosylated mexiprostan, a nitrosylated misoprostol, a nitrosylated misoprostol acid, a nitrosylated nocloprostan, a nitrosylated ornoprostil, a nitrosylated prostalene, a nitrosylated PGE₁, a nitrosylated PGE₂, a nitrosylated PGF₁, a nitrosylated PGF_{2a}, a nitrosylated rioprostil, a nitrosylated rosaprostan, a nitrosylated remiprostol, a nitrosylated sulprostone, a nitrosylated trimoprostil, a nitrosylated tiprostanide, a nitrosylated unoprostone, or a pharmaceutically acceptable salt thereof, comprising at least one NO group; wherein the at least one NO group is linked to the arbaprostil, alprostadil, carboprost, cloprostenol, dimoxaprostan, enprostil, enisoprost, fenprostalene, gemeprost, latanoprost, meteneprost, mexiprostan, misoprostol, misoprostol acid, nocloprostan, ornoprostil, prostalene, PGE₁, PGE₂, PGF₁, PGF_{2a}, rioprostil, rosaprostan, remiprostol, sulprostone, trimoprostil, tiprostanide; or unoprostone, or through an oxygen atom, a nitrogen atom or a sulfur atom.